

## ANTILOADING COMPOSITIONS AND METHODS OF SELECTING SAME

## ABSTRACT OF THE DISCLOSURE

An antiload composition includes a first organic compound. The compound has a  
5 water contact angle criterion that is less than a water contact angle for zinc stearate. The  
first compound also satisfies at least one condition selected from the group consisting of a  
melting point  $T_{\text{melt}}$  greater than about 40 °C, a coefficient of friction  $F$  less than about 0.3,  
and an antiload criterion  $P$  greater than about 0.3. Another embodiment includes a  
second organic compound, having a different water contact angle from that of the first  
10 organic compound. The composition has a particular water contact angle  $W_p^\circ$  that is  
determined, at least in part, by the independent  $W_g^\circ$  of each compound and the proportion  
of each compound in the composition.

Also, an abrasive product includes the antiload composition. A method of grinding  
a substrate is disclosed that includes employing effective amount of an antiload  
15 composition. Further disclosed is a method of selecting an antiload compound.